



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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No. 16] NEW DELHI, SATURDAY, APRIL 16, 1994 (CHAITRA 26, 1916)

हस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 16th April 1994

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1—27 GI/94

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Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
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Building, 5th, 6th and 7th  
Floor, 234/4, Acharya Jagadish  
Bose Road, Calcutta-700 020.

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Telegraphic address "PATENTS".

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पेटेंट कार्यालय  
एकत्र तथा अभिकल्प  
क्रमांक दिनांक 16 अप्रैल 1994

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जो कि भारतीय क्षेत्राधिकार ज्ञान के आधार पर निम्न रूप में प्रवर्तित हैं :—

पेटेंट कार्यालय शाखा, टोली इस्टेट,  
तीसरा तल, टोडर परले (पश्चिम),  
बम्बई-400013 ।

राजराज महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं सम्बंधित क्षेत्र योश, दमन तथा  
दीव एवं दादरा और नगर हवेली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
एचएस 401 से 405, तीसरा तल,  
नगर निगम बाजार भवन,  
रंगी मार्ग, करोल बाग,  
नई दिल्ली-110005 ।

पिप्रा, त्रिभुवन प्रदेश, उमर तथा कश्मीर,  
गंगा, रावस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं सम्बंधित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,  
G1, बालासाहू रोड,  
मद्रास 600002 ।

तम्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं सम्बंधित क्षेत्र पाण्डिचेरी, लक्षद्वीप,  
मिस्मि तथा एमिनिविधि द्वीप ।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलस, द्वितीय बहुतलीय कार्यालय,  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का अवशेष क्षेत्र ।

तार पता—“पेटेंटोफिस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे-  
क्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट  
कार्यालय के केवल उपयुक्त कार्यालय से ही प्राप्त किए जाएंगे ।

शर्तक —शुल्कों की अदायगी या तो नवद की जाएगी अथवा  
उपयुक्त कार्यालय से नियंत्रक को भुगतान योग्य धनादेश अथवा  
छाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान  
पर जहां कि पेटेंट से नियंत्रक को भुगतान योग्य बैंक नॉफ्ट  
अथवा बैंक दायरा की जा सकती है ।

#### APPLICATION FOR PATENT FILED AT THE HEAD OFFICE AT 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed under Section 135, of the Patent Act, 1970

21st February 1994

108/Cal/94. Kohler Co Dual Flush Mechanism

109/Cal/94 Hoechst Aktiengesellschaft Water-soluble cop-  
per complex monoazo-naphtholcarboxylic acid  
compounds, processes for their preparation and  
their use as dyestuffs

110/Cal/94 Copeland corporation Suction gas conduit

111/Cal/94 Stork Brabant B V Device for suspending a  
squeegee in a cylindrical screen of a rotary screen  
printing machine

22nd February 1994

112 Cal/94 Application Air Laboratories Co Ltd Magnetic  
closure device

113/Cal/94 Dr Subhankar Mukherjee and Dr Sunit Kumar  
Biswas Solar-Powered Uninterruptible light  
supply.

23rd February 1994

114/Cal/94 Lindab AB Kit and method for producing a  
connector for fluid conducting elements

115 Cal/94 Dr Ishwar Dayal Varma Cement Based Com-  
posites

25th February 1994

116/Cal 94 Johnson & Johnson Medical, Inc Water soluble  
wound dressing materials. (Convention No  
9304309 9, filed on 3-3-93, U K)

117/Cal/94 Johnson & Johnson Medical, Inc Swellable  
wound dressing materials (Convention No  
9304310 7 filed on 3-3-93; U K)

118 Cal/94 Krupp Widia GmbH A tool produced by  
plasma CVD process (Divided out of No  
1008/Cal/89, antedated to 5th December 1989)

119/Cal 94 Mobile process technology Inc Ethylene  
Glycol Recovery process

#### ALTFRATION OF DATE UNDER SECTION-16

Patent No 173372 Ante-dated to 31st January, 1986  
(104/M/89)

Patent No 173380 Ante dated to 19th May, 1987.  
(56/M/91)

## COMPLETE SPECIFICATION ACCEPTED

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The classifications given below in respect of each specification are according to Indian Classification and International Classification.

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## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से चार(4) महीने या अंतिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्राव 14 पर अधिदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को उपयुक्त कार्यालय को ऐसे विरोध की सूचना विहित प्राव 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर्राष्ट्रीय वर्गीकरण के अनुरूप हैं।”

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता अथवा उपयुक्त शाखा कार्यालय द्वारा विहित लिप्यान्तरण प्रभार, जिसे उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदावगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 2 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 2/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl.: 40-H—[GROUP-IV(1)]

173361

Int. Cl.: B 01 D 53/00

PROCESS FOR PURIFYING A GASEOUS MIXTURE CONSISTING ESSENTIALLY OF HYDROGEN AND CONTAINING CARBON MONOXIDE METHANE AND ARGON AS IMPURITIES.

Applicant: LINDE AKTIENGESSELLSCHAFT, ABRAHAM-LINCOLN-STRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventors: (1) WOLFGANG SCHMID, (2) HANS BECKER, (3) HERWIG LANDES, (4) HANS JUNGFER.

Application No. 910/Mas/88; filed December 22, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 3 Claims

A process for purifying a gaseous mixture consisting essentially of hydrogen and containing carbon monoxide, methane and argon as impurities comprising the steps of scrubbing said gaseous mixture with liquid nitrogen in a scrubbing column having an upper section and a lower section, the liquid nitrogen being introduced into the upper section of the scrubbing column and in a quantity sufficient to substantially completely remove carbon monoxide from said gaseous mixture; and withdrawing a part of the said scrubbing liquid nitrogen enriched with carbon monoxide above the lower section, the remaining scrubbing liquid nitrogen delivered to the lower section of the scrubbing column being sufficient to substantially completely scrub out methane from said gaseous mixture in said lower section to obtain the gaseous mixture free of carbon monoxide and methane from the upper section of the said scrubbing column.

(Compl. Specn. 17 pages;

Drwgs. 3 sheets.)

Ind. Cl.: 131-A,—[GROUP-XXVIII(3)]

173362

Int. Cl.: E 21 B 41/00

A METHOD OF MAKING A SEALING RING IN AN ANNULAR SPACE AND AN APPARATUS FOR THE SAME.

Applicants: (1) HUICHINSON AND (2) MERIP OIL TOOLS INTERNATIONAL, OF 2 RUE BALZAC, 75008 PARIS AND ZONE ARTISANALE DE MONTARDON, 64124, SERRES CASTET, FRANCE, RESPECTIVELY.

Inventors: (1) ANDRE CHEYMOL, (2) FRANCOIS CLAUDE GUEURET, (3) GILBERT CLAUDE BLU.

Application No. 43/Mas/89; filed January 18, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 12 Claims

A method of making a sealing ring in an annular space lying between a portion of an inside wall of a well and a corresponding opposite portion of an outside wall of a casing inside the well, said method comprising:

delimiting said annular space by inflating two chambers defined by a first deformable, annular elastomeric confinement membranes and the outside wall and a second deformable annular elastomeric confinement membrane and the outside wall;

injecting a filler suitable for injection under pressure into the chamber defined by a deformable, annular elastomeric separator membrane disposed between said confinement membranes where a sealing ring is provided in said space.

(Compl. Specn. 20 pages;

Drwgs. 3 sheets.)

Ind. Cl. : 50-D &amp; 98-E

173363

[GROUPS-VII(1) &amp; VII(2)]

Int. Cl. : A 47 G 23/04.

A DEVICE FOR SIMULTANEOUSLY HEATING AND COOLING SEPARATE ZONES.

Applicant : INTERNATIONAL THERMAL PACKAGING, INC., INCORPORATED IN THE STATE OF CALIFORNIA, U.S.A., OF 1100 GLENDON AVENUE, LOS ANGELES, CA 90024, UNITED STATES OF AMERICA

Inventors (1) CULLEN M. SABIN, (2) DENNIS A. THOMAS, (3) GARY V. STEIDL.

Application No. 200/Mas/89 filed March 15, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 25 Claims

A device for simultaneously heating and cooling separate zones, comprising :

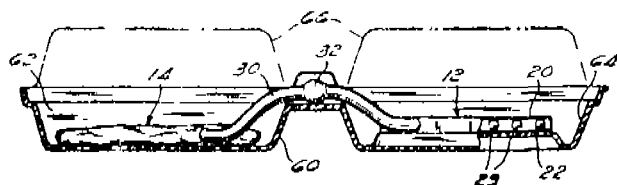
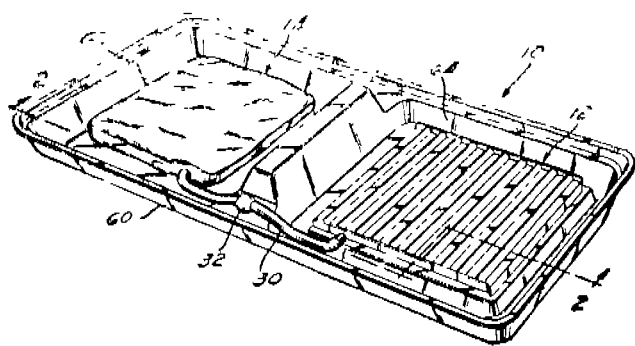
a container divided into first and second zones;

a first module thermally coupled to said first zone for cooling said first zone, said first module containing a vaporizable substance having a vapor pressure;

a second module thermally coupled to said second zone for heating said second zone, said second module being evacuated and containing a sorbent for said vaporizable substance.

a conduit for establishing a fluid connection between said first and second modules; and

a valve in said conduit for selectively allowing flow through said conduit between said modules such that opening said valve to connect said first and second modules permits said vaporizable substance to vaporize, thereby forming a vapor, and permits said vapor to pass through said conduit and into contact with said sorbent, which sorbs and removes said vapor such that the evaporation of said vaporizable substance serves to cool said first module, and the sorption of said vapor by said sorbent serves to heat said second module.



(Compl. Specn. 22 pages;

Drawgs. 2 sheets.)

Ind. Class : 45-G<sub>1</sub>&<sub>2</sub> [GROUP-1191]

173364

Int. Cl. : E 03 D 3/06; 1/30

### AN IMPROVED FLUSHING CISTERN

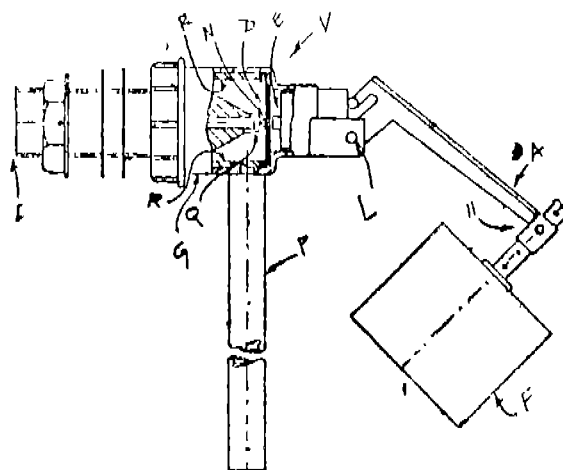
Applicants & Inventors : (1) NAGENDRA GHORPADE, (2) VANKIPURAM RAMAMURTHY RAMARATHNAM, (3) VIJAY GHORPADE AND (4) SMT. SRI-PRITYA SRINIVASAN, ALL OF ESPIEM INC, 459, ANNA SALAI, NANDANAM, MADRAS-600 035, TAMIL NADU, INDIA, ALL INDIAN NATIONALS

Application No 210 Mas/89 filed on March 20, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Madras Branch.

### 3 Claims

An improved flushing cistern comprising a syphonic system, a water inlet and a water discharge outlet, characterised in that the water inlet is provided with a valve operable by an adjustable float-linkage, said valve incorporating a flexible diaphragm provided with a recessed nipple, the diaphragm abutting an actuator on one side and spaced ribs of an orificed collar on the other side, the actuator being operable by the float-linkage in a predetermined raised position of the float to urge the nipple against the orifice of the collar to close the valve and thus prevent entry of water from the inlet into the cistern; and wherein a knob is provided on the exterior of the cistern wall, the knob being fixed to a shaft on which is pivotably mounted a linkage coupled to the stem of the syphonic system, said linkage having a slidably extensible section and a hinged section for being coupled to the stem of the syphonic system, the stem being thus liftable by turning the knob.



(Compl. Specn. 6 pages;

Drawgs. 2 sheets)

Ind. Class : 40-F—[GROUP-IV(1)]

173365

Int. Cl. : C 07 B 35/02

PROCESS FOR SELECTIVE HYDROGENATION IN LIQUID PHASE OF A NORMALLY GASEOUS HYDRO-CARBON FEED IN VAPOUR FORM.

Applicant : INSTITUTE FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE, OF 4 AVENUE DE BOIS-PEAU, 92502, RUEIL-MALMAISON, FRANCE.

Inventors : (1) JEAN COSYNS, (2) JEAN-PAUL BOIT-IAUX.

Application No. 225/Mas/89 filed on March 21, 1989.

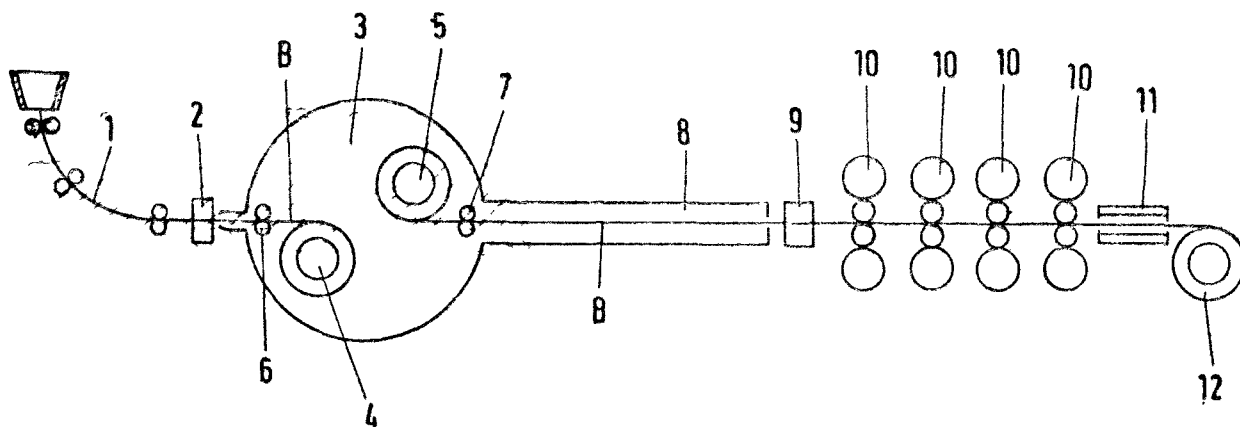
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 8 Claims

Process for selective hydrogenation in liquid phase of a normally gaseous hydrocarbon feed in vapour form containing 0 to 6% by weight of hydrogen, 0 to 40% by weight of methane, 25 to 80% by weight of  $C_2$  hydrocarbons, in particular 0.1 to 5% by weight of acetylene, 15 to 75% by weight of ethylene, 0 to 40% by weight of  $C_3$  hydrocarbons, 0 to 10% by weight of  $C_4$  hydrocarbons and 1 to 20% by weight of gasoline cut comprises contacting with a supported catalyst consisting of a mixture of palladium and at least one additional metal chosen from gold and silver deposited on at least one support chosen from alumina and silica, in the presence of condensed and recycled liquid phase containing at least part of the said hydrogenated gasoline cut from the said feed, at a pressure of 10 to 50 bars, temperature of 10 to 150°C and space velocity of 500 to 20,000 expressed as volume flow rate of the gaseous cut to be hydrogenated at normal temperature and pressure (NTP) per volume of the catalyst per hour (gas LHSV).

(Compl. Specn. 19 pages;

Drawg. 1 sheet)



(Compl. Specn. 12 pages)

Drawgs. 3 sheets)

Ind. Class : 31-B—[GROUP-LVII(2)]

173367

Int. Cl.<sup>4</sup> : H 01 F 27/08

A HEAT EXCHANGE DEVICE FOR PROTECTING THE POLES OF AN ELECTROMAGNETIC INDUCTOR.

Applicant ROTELEC s.a., 40, RUE JEAN JAURES-93176-BAGNOLET CEDEX (FRANCE), A FRENCH COMPANY.

Inventors : (1) MARC BUFFENOIR (2) RENE PIERRET (3) JEAN HELLEGOUARCH (4) GERARD PROST.

Application No. 285/Mas/89 filed on April 17, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 11 Claims

A heat exchange device for protecting the poles of an electromagnetic inductor comprising one or more tubes in

Ind. Class : 33-A & 129-J

173366

[GROUPS-XXXIII(3) & XXXV]

Int. Cl.<sup>4</sup> : B 21 1, 34

A PLANT FOR THE PRODUCTION OF HOT-ROLLED STEEL BAND.

Applicant : MANNESMANN AKTIENGESellschaft, OF MANNESMANNUFER 2, D-4000 DUSSELDORF 1, WEST GERMANY, A GERMAN COMPANY.

Inventors : (1) HANS-DIETER HOPPMANN (2) KLAUS FROMMANN.

Application No. 235/Mas/89 filed on March 23, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 14 Claims

A plant for the production of hot-rolled steel band comprising a casting unit for casting a slab winding system for winding the cast slab into a coil, transferring means for transferring the said wound slab into an unwinding system by means of a conveyor, moving means for moving the unwound slab to a rolling mill and an oven in which said winding system unwinding system and the conveyor are disposed wherein said conveyors of the transferring means and moving means are winding mandrels movable on a plane along the process path.

the same plane designed to allow the circulation of a cooling fluid, wherein the said tube or tubes are made of non-magnetic metals and disposed in such a way that there is only one electrical junction between any two tubes or tube elements.

(Compl. Specn. 13 pages;

Drawg 1 sheet)

Ind. Class : 107-A & 174-G

173368

[GROUPS-XLVI(2) & LH(4)]

Int. Cl.<sup>4</sup> : F 16 F 15/02

AN ENGINE COMPRISING A CYLINDER BLOCK.

Applicant : CATERPILLAR INC., A CORPORATION DULYORGANISED AND INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE OF 100 N.E. ADAMS STREET, PEORIA, ILLINOIS-61629-6490, U.S.A.

Inventors : (1) BENNY (NMI) BALLHEIMER (2) MICHAEL KAYWOOD STRATTON.

Application No. 381/Mas/89 filed on May 12, 1989.

Convention date : November 8, 1988; (No. 582515 Canada)

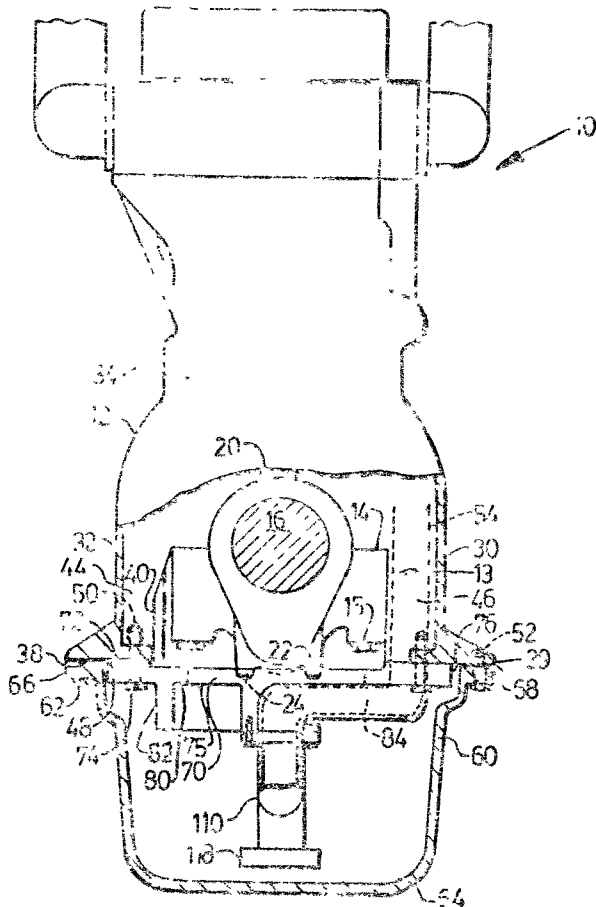
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 11 Claims

An engine comprising a cylinder block having a pair of elongate, spaced apart sidewalls each defining an outer mounting surface along a lower edge thereof, crankshaft mounting means integral with the block in elevationally upwardly spaced relation to the outer mounting surface and comprising removable bearing caps the sidewalls further defining inner mounting surfaces elevationally spaced below the bearing caps;

a crankshaft rotatably mounted in the crankshaft mounting means and retained therein by the bearing caps; an oil pan sealingly and removably connected to the outer mounting surfaces of the sidewalls; and

rigidifying means or sound dampening means (70) is removably connected to the inner mounting surface (48) and structurally interconnects the pair of sidewalls (30, 32) and is free of any connection with the bearing caps (14).



(Compl. Specn. 13 pages;

Drwgs. 3 sheets)

Ind. Class : 206-E—[GROUP-LXII]

173369

Int. Cl.: H 01 L 21/70

A PROCESS FOR FORMING A SEMICONDUCTOR DEVICE.

Applicant : GENERAL INSTRUMENT CORPORATION, A DELAWARE CORPORATION, U.S.A., OF 767 FIFTH AVENUE, NEW YORK, NEW YORK 10153, U.S.A.

Inventors : (1) WILLEM GEINTHOVEN (2) LINDA J DOWN.

Application No. 154/Mas/92 filed on March 13, 1992.

Divisional to Patent Application No. 534/Mas/88; Antedated to 27 July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 9 Claims

A process for forming a semiconductor device, said process comprising the steps of :

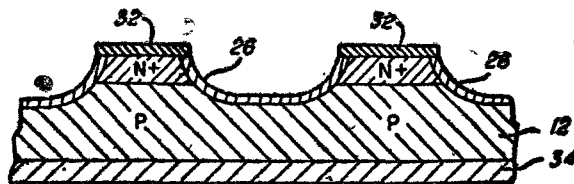
providing an N layer in a P region of a wafer, said N layer having a higher concentration than said P layer;

forming a plurality of mesa semiconductor structures in said wafer, each mesa structure having a P-N junction intersecting a sidewall of the mesa structure, said P-N junction including at least a portion of said N layer and a portion of said P region;

diffusing said P-N junction deeper into said P layer with a diffusion front which tends to curve said P-N junction towards said N layer in the vicinity of the mesa sidewall; and

oxidizing said sidewall of said mesa structure after said diffusion step, whereby the oxidation tends to curve said P-N junction towards said P region in the vicinity of the oxidation;

said diffusion and oxidizing steps being carried out to such an extent as to compensate for the curvatures caused by one another and thereby yield a substantially flat P-N junction.



(Compl. Specn. 25 pages;

Drwgs. 7 sheets)

Ind. Class-206-E-[GROUP-LXII]

173370

Int. Cl.: H 01 L 21/70

A PROCESS FOR FORMING A SEMICONDUCTOR DEVICE.

Applicant : GENERAL INSTRUMENT CORPORATION, A DELAWARE CORPORATION, U.S.A., OF 767 FIFTH AVENUE, NEW YORK, NEW YORK 10153 U.S.A..

Inventors : (1) WILLEM G EINTHOVEN  
(2) LINDA J DOWN

Application No. 155/Mas/92 filed March 13, 1992.

Divisional to Patent Application No. 534/Mas/88; Antedated to July 27, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

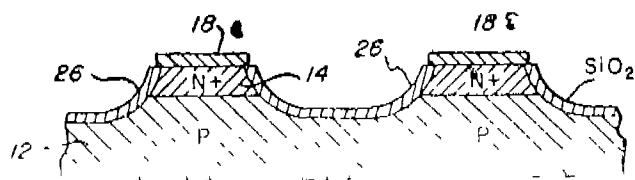
A process for forming a semiconductor device, said process comprising the steps of :

providing an N layer in a P region of a wafer, said N layer having a higher concentration than said P layer,

forming a plurality of mesa semiconductor structures in said wafer, each mesa structure having a P-N junction intersecting a sidewall of the mesa structure, said P-N junction including at least a portion of said N layer and a portion of said P region; and

diffusing said P-N junction deeper into said P layer with a diffusion front which tends to curve said P-N junction toward said N layer in the vicinity of the mesa sidewall while simultaneously oxidizing said sidewall of said mesa structure, whereby the oxidation tends to curve said P-N junction toward said P region in the vicinity of the oxidation;

said diffusion and oxidizing step being carried out to such an extent as to compensate for the curvatures caused by one another and thereby yield a substantially flat P-N junction.



(Com 25 pages;

Drawgs-7 sheets)

Ind. Class-40-F-[GROUP-IV(1)]

173371

Int. Cl.-B 01 D 15/04

PROCESS FOR REMOVING MERCURY FROM A NON-POLAR NON-AQUEOUS, ORGANIC MEDIUM

Applicant : STAMICARBON B.V. OF MIJNWEG 1, 6167 AC GEILEN, NETHERLANDS, A DUTCH COMPANY.

Inventors : (1) HENRICUS ANTONIUS MARIA  
(2) DUSTERS  
(2) PAUL CHRISTIAAN VAN GEFM

Application No. 859/MAS/88 filed December 1, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

## 7 Claims

A process for removing mercury from a non-polar, non-aqueous, organic medium, such as herein described comprising contacting the said non-polar organic medium with a solid adsorbent containing chemically-bound active SH-groups as herein described at a temperature between 30°C and 60°C during a residence time of more than 30 seconds

(Com-13 pages;

Drawg-1 sheet)

Ind. Class-24 B&F-[GROUP-LVI]

173372

Int. Cl.-F 16 D 55/00; 65 14

IMPROVEMENTS IN SELF-ENERGISING DISC BRAKES

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventors : (1) ANTHONY GEORGE PRICE  
(2) ROY CAMPBELL  
(3) SIGMAR MICKLE

Application No. 104/MAS/89 filed February 9, 1989.

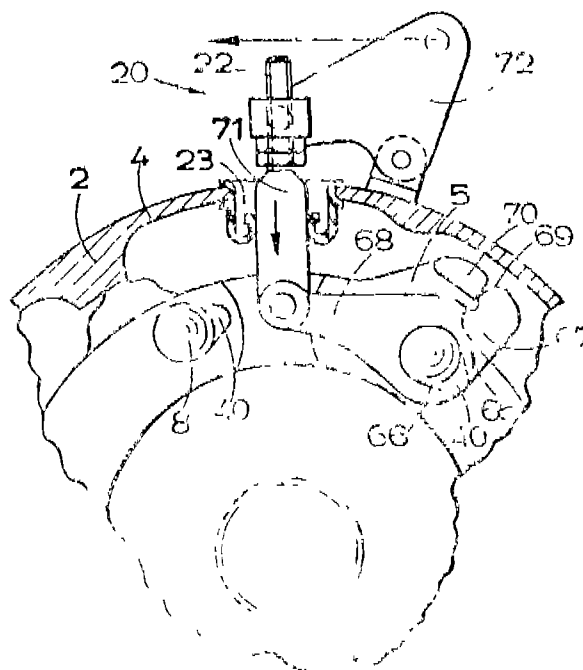
Convention dated 4/2/85 No. 8502 741 (U.K.)

Divisional to Patent No. 166925 (66/MAS/86); Antedated to January 31, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 12 Claims

A self-energising disc brake comprising a housing having spaced opposed braking surfaces, rotatable friction discs having linings of friction material and provided within the housing, pressure plates located between the friction discs and centred by stationary pilot lugs, rolling bodies located in pairs of complementary angularly spaced recesses provided in the adjacent faces of the pressure plates, application of the brake being initiated by movement of the pressure plates angularly in opposite directions, the brake being characterised in that the brake has a brake-applying member which comprises a plate member extending into the brake between the pressure plates and having an opening which receives a single rolling actuator body, angular movement of the pressure plates in opposite directions to apply the brake being effected by the co-operation of the brake-applying member with said rolling actuator body in order to displace that body with respect to at least one of the plates whereby to cause the pressure plates to move apart



(Com-11 pages;

Drawgs-2 sheets)

Ind. Class-186-F & 206-1 [GROUPS IX(1) & LXII] 173373

Int. Cl.-H 04 N 5/40

APPARATUS FOR TRANSMITTING VIDEO SIGNALS

Applicant : KABUSHIKI KAISHA TOSHIBA, A JAPANESE COMPANY, OF 72 HORIKAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, KANAGAWA-KEN, JAPAN.

Inventor : SAKUYUKI MIZUNO

Application No. 441/MAS/89 filed June 6, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 5 Claims

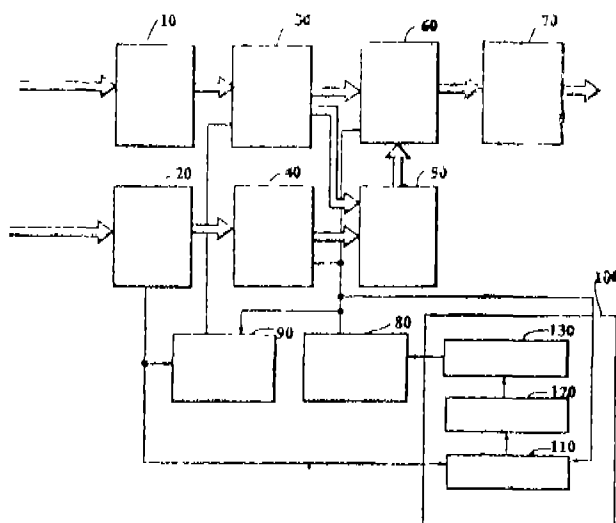
An apparatus for transmitting incoming video signals, which are accompanied by horizontal and vertical synchronization signals, using modulation, comprising :

sampling means for sampling the incoming video signals;  
oscillator means for providing sampling clock signals;

modulation means connected to receive sampled video signals from the sampling means and the sampling clock signals from the oscillator means for modulating the sampled video signals at timing given by the sampling clock signals;

means connected to receive the incoming horizontal synchronization signal and the sampling clock signals and connected to the sampling means and to the oscillator means in order to control the phase relationship between the horizontal synchronization signal and the sampling clock signals; and

transmitter means connected to the modulation means for transmitting the modulated video signals from the modulation means.



(Com.-15 pages;

Drwgs.-6 sheets)

Ind. Class-172-B [GROUP-XXI]

173374

Int. Cl.-D 02 G 1/00

## A DEVICE FOR INCREASING THE FIBRE COHESION LENGTH OF SLIVERS

Applicant : MASCHINENFABRIK RIETER AG, A BODYCORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF WINTERTHUR, SWITZERLAND.

Inventors : (1) HANSULRICH EICHENBERGER  
(2) HEINZ CLIMFNT

Application No. 632/MAS/89 filed August 22, 1989.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office, Madras Branch.

## 5 Claims

A device for increasing the fibre cohesion length of sliver (1) comprising a pair of parallel calendar rollers (4,5) disposed in spaced relation to a gap therebetween, each said roller having a plurality of transversely disposed protuberances (16) thereon for interengaging a spaced relation with said protuberances of the other of said rollers to slightly crimp a sliver passing through said gap; and means for spring biasing at least one of said rollers towards the other of said rollers, each said protuberances being of tooth-like cross section with resounded edges having a pair of flanks (8,9) each flank

defining an angle greater than  $45^\circ$  with a radius of said respective roller passing through a center of said protuberance.

(Com-9 pages;

Drwgs-2 sheets)

Ind. Class — 92-J - [GROUP — 1(3)]

173375

Int. Cl. : A 23F 5 02

## A PROCESS FOR TREATING COFFEE BEANS

Applicant : SOCIETE DES PRODUITS NESTLE S A. A COMPANY INCORPORATED IN SWITZERLAND, OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND

Inventor : SAEED AHMAD HUSAINI

Application No. 634/MAS 89 filed August 23, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch

## 6 Claims (No drawing)

A process for treating coffee beans comprising : increasing the moisture content of green coffee beans by soaking the green beans in a liquid selected from a group consisting of water, an aqueous extract of coffee, and aqueous condensate obtained from coffee extract and combinations of extract and condensate to obtain moisturized beans having a moisture content of at least 25% to 30% by weight based upon the total weight of the moisturized beans; heating the moisturized beans with agitation in a vessel containing the beans and the excess fluid in the presence of a substantially inert gas atmosphere under a positive pressure of at least  $1.4 \text{ kg cm}^2$ , at a temperature of  $150^\circ\text{C}$  to  $180^\circ\text{C}$ , for a time sufficient for hydrolyzing and pyrolyzing the moisturized beans while avoiding charring them; and drying the hydrolyzed and pyrolyzed beans to obtain treated coffee beans with stable moisture content.

(Com.-28 pages)

Ind. Class : 92-J [GROUP-1(3)]

173376

Int. Cl. : A 23 F 5/02

## A PROCESS FOR TREATING COFFEE BEANS.

Applicant : SOCIETE DES PRODUITS NESTLE SA, A SWISS BODY CORPORATE OF PO BOX 353, CH-1800 VEVEY, SWITZERLAND.

Inventors : (1) DAVID L. BELVILLE

(2) DONALD WETHFRIT

(3) JAMES EDWARD WIMMERS.

Application No 635/MAS/89 filed August 23, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 6 Claims (No Drawing)

A process for treating coffee beans comprising increasing the moisture content of green coffee beans contained in the presence of a substantially inert gas atmosphere under a positive pressure of at least  $1.4 \text{ kg/cm}^2$  and at a temperature of  $60^\circ\text{C}$  to  $125^\circ\text{C}$  by soaking the green beans in a liquid selected from a group consisting of water, an aqueous extract of coffee, an aqueous condensate obtained from coffee extract and combinations of extract and condensate, to obtain moisturized beans having a moisture content of at least 25% by weight based upon the total weight of the moisturized beans; heating the moisturized beans contained in a substantially inert gas atmosphere with agitation at a temperature of  $150^\circ\text{C}$  to  $195^\circ\text{C}$  for a period of 5 mins to 30 mins for hydrolyzing and pyrolyzing the moisturized beans while avoiding charring them; and drying the hydrolyzed and pyrolyzed beans to obtain treated coffee beans with stable moisture content.

(Com. 31 pages)



Ind. Class : 107-G&amp;I [KROUP XLVI(2)]

173377

Int. Cl.<sup>4</sup> : F 02 M 19/00**A FUEL ECONOMY DEVICE FOR SCOOTER.**

Applicant & Inventor : NITHYA SANTHANAKRISHNAN, AN INDIAN, OF 19/3, I.C.F. EAST COLONY, MADRAS-600 038, INDIA.

Application No. 642/MAS/89 filed August 28, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**7 Claims**

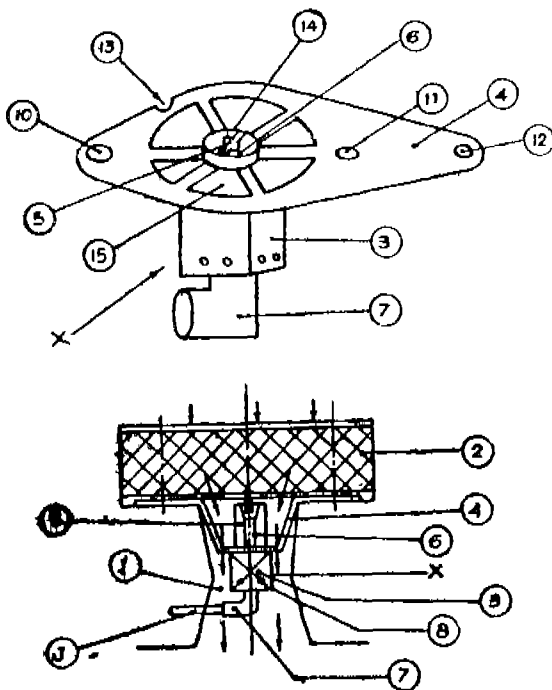
A fuel economy device for scooters, comprising a mixing chamber for fuel and air, said chamber having a securely-fitted supporting means for disposition of the chamber near the narrowest portion of the ventury tube of the carburettor of the scooter said supporting means being provided with inlets for air passage inside the carburettor and said mixing chamber having :

(a) a narrow borehole provided on its top for allowing air to impinge at its inside centre,

(b) a bent tube securely provided to its bottom such that the free outer end of the bent tube is adapted to be disposed in alignment with the main jet of the carburettor,

(c) a plurality of evenly distributed holes on the walls thereof for outlet of air, and

(d) equi-angularly spaced vertical passages around the periphery of the bent tube for allowing fuel vapour, formed in the mixing chamber, to pass down to the combustion chamber of the scooter engine.

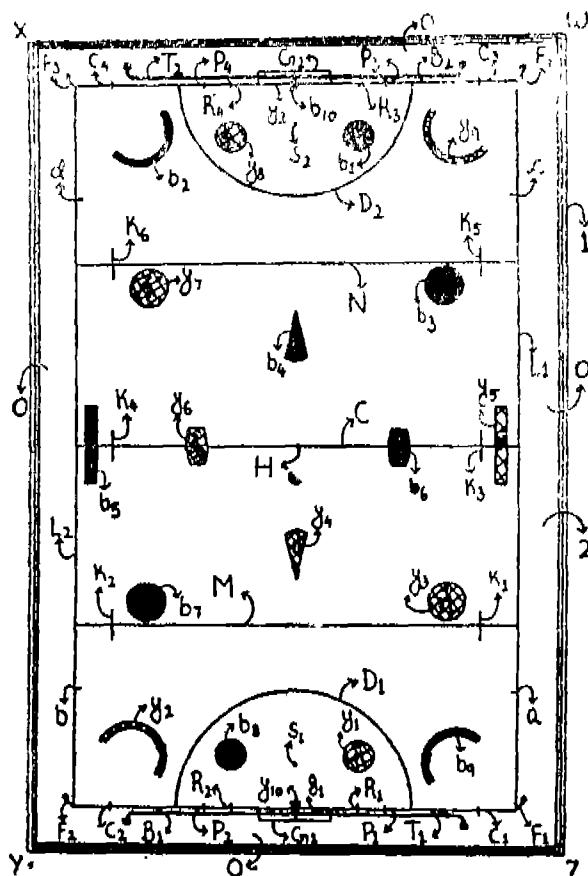


(Com. 10 pages; Drawgs. 2 sheets)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**3 Claims**

A device for playing an indoor hockey game that is particularly adapted to permit, with reference to a set of rules such as herein prescribed, the equivalent of a hockey game to be played between two teams, each of which consists of one or more members, characterised in that there are provided a ball, two sticks, with which the ball may be hit by a member of either team, a board or equivalent representing a Hockey playing field from which protrude, or on which are fixed, (a) a plurality of toy players, each of which may possess any possible shape and orientation on the playing area, such as herein described, of which the ball may be deflected along any desired direction, (b) two housings representing goal-posts, in front of each of which is provided a toy goalkeeper that can be moved horizontally by said member or another member, if any, of the respective team by means of a rod-like device attached to it and passing through said housing in order to physically prevent a ball, so hit, from entering into the goal-post, (c) a fencing or equivalent bounding the playing area, so that the ball may stay within the confidence of the board, and (d) four flag posts located at the four corners of the playing area, and two scoreboards to keep an account of the number of goals scored by each team.



(Com. 22 pages; Drawgs. 2 sheets)

Ind Class : 87 D&amp;E [GROUP XLII(4)]

173378

Int. Cl.<sup>4</sup> : A 63 F 7/06**A DEVICE FOR PLAYING AN INDOOR HOCKEY GAME.**

Applicant & Inventor : SUBRAMANI ANIL KUMAR, AN INDIAN NATIONAL, RESIDING AT 8/10, NORTON ROAD, MANDAVELL, MADRAS, TAMIL NADU, PIN CODE NO. 600 028.

Application No. 759/MAS/89 filed October 16, 1989.

Ind. Class : 19-C [GROUP LXIV(1)]

173379

Int. Cl.<sup>4</sup> : 16 B 37, 00**ADAPTOR FOR SCREWING OR UNSCREWING THREADED CONNECTION ELEMENTS.**

Applicant : FRAMATOME, TOUR FLAT-1 PLACE DE LA COUPLE-92400 COURBEVOIE, FRANCE, A FRENCH COMPANY.

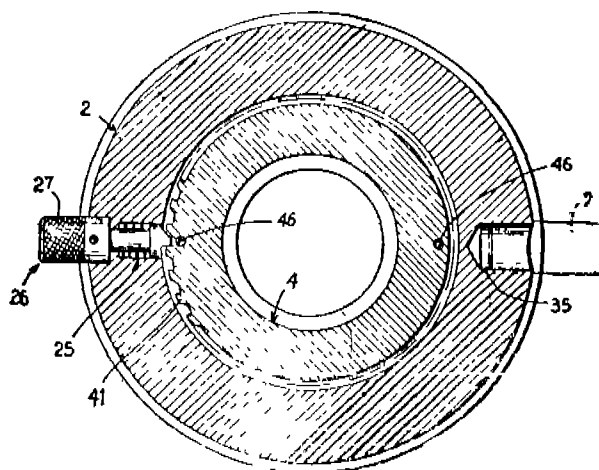
Inventor : FRIZOT ALAIN.

Application No. 852/MAS/89 filed November 22, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 10 Claims

Adaptor for screwing or unscrewing threaded connection elements (1), characterized in that it comprises a nut (2) screwed onto an end of a connection element (1) and interacting with a connector (4) adapted to ensure a connection between a screwing or unscrewing member and said connection element (1), means (26, 41) between said nut (2) and said connector (4) permitting said connector (4) to rotate in one direction but preventing rotation of said connector in an opposite direction, and means (44) for elastic support of said connector (4) on said end of said connection element (1).



(Com. 11 pages; Drawgs. 2 sheets)

Ind. Class : 147-C&E [GROUP LX(3)] 173380

Int. Cl.<sup>4</sup> : G 11 C 11/02; 15/02

### A MAGNETIC SIGNAL PROCESSING APPARATUS.

Applicant : AMPEX CORPORATION, OF 401 BROADWAY, M S 3-35, REDWOOD CITY, CALIFORNIA 94063-3199, U.S.A., A. U. S. Company.

Inventors : (1) BEVERLEY R GOOCH  
(2) ROGER W WOOD  
(3) REX NIEDERMEYER.

Application No. 56/MAS/91 filed January 28, 1991.

Divisional to Patent Application No. 368/MAS/87; Antedated to May 19, 1987.

Convention date : December 15, 1986; (No. 525, 360; Canada).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

### 9 Claims

A magnetic signal processing apparatus comprising :

(a) a magnetic record medium having a magnetically coercive layer for receiving and storing signals and a magnetically permeable, low coercivity, magnetically soft material;

(b) a magnetic transducer in closely spaced relationship to the surface of the medium;

(c) means for relatively moving the medium and the transducer; and

(d) means for generating a magnetic bias flux in the transducer that is coupled to the magnetically permeable, low coercivity, magnetically soft material during signal transfers between the medium and transducer to establish adjacent regions of different magnetic permeabilities in the magnetically soft material.

(Com. 24 pages;

Drawgs. 4 sheets)

PATENT SEALED ON 18-03-1994

165602\* 168826 168610\* 171923\* 171943 171947 171950  
171956 171957 171961 171965 171971 171975 171978  
171980 171983 171988 171989 171990 171993 171995  
171996 172007 172008 172009 172010\*D 172011 172012  
172013 172014

CAL-12, MAS-09, BOM-01, DEL-08

Patent shall be deemed to be endorsed with the words LICENCE OF RIGHT under section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—DRUG PATENT, F—FOOD PATENT

### RENEWAL FEES PAID

152293 153218 153539 153698 154285 154594 154742  
154939 155329 155607 156287 156903 157007 157012  
157028 157067 157288 157308 157458 157462 157494  
157589 157667 157841 158209 158249 158296 158458  
158493 158522 158740 158883 158910 159130 159486  
159845 159910 160666 160713 161218 161456 161458  
161892 162252 162260 163401 163432 163884 164455  
164509 164994 165432 165834 165916 166095 166434  
166518 166728 166862 166913 166914 167014 167015  
167018 167153 167169 167353 167736 167837 168200  
168213 168221 168319 168552 168762 168897 168966  
169093 169275 169855 170729 170861 170929 170940  
171530

### CESSATION OF PATENTS

166226 166239 166248 166256 166263 166265 166267  
166276 166280 166288 166294 166296 166299

### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154629 granted to Howden Equipment Services Ltd. & others for an invention relating to "improved counter current diffusion extractor."

The Patent ceased on the 7th July, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th April, 1993.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4 Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 16-6-1994, under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 156509 granted to Vapor Corporation for an invention relating to "a refrigerator or cooler unit."

The Patent ceased on the 8th February, 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th April, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4 Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 16-6-1994 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 161609 granted to Hollandse Signaalapparaten B. V. for an invention relating to "Radar System."

The Patent ceased on the 8th Feb., 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th April, 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 16-6-1994 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of

Patent No. 169092 granted to Darya Paye Jetty Co., Ltd. for an invention relating to "a device for constructing a rigid structure upon the bottom of a body water."

The Patent ceased on the 29th Jan., 1993 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 19th Feb., 1994.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 16-6-1994 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries :

Class 1. No. 166307. Raju Khara, Indian of 27, Weston Street, Room No. 301, 3rd floor, Calcutta-700012, W.B., India. "Castor wheel". October 4, 1993.

Class 3. No. 165634. Achal Anil Bakari, Indian of 13, Sadma Society, Navrangpura, Ahmedabad-380009, Gujarat, India. "Dry grinding machine". May 12, 1993.

Class 3. No. 165640. Achal Anil Bakari, Indian of 13, Sadma Society, Navrangpura, Ahmedabad-380009, Gujarat, India. "Air cooler". May 12, 1993.

Class 3. No. 166620. Gupta Ayurved Kendra, 6, Old Post Office Street, Ground floor, Calcutta-700001, W.B., India. "Container". December 23, 1993.

Class 12. No. 164823. Raja Slate Pvt. Ltd. of Lati Bazar, Near Das Dela, Bhavnagar-364001, Gujarat, India. "Slate". September 28, 1992.

Class 12. No. 164825. Niranjan Shantilal Shah, Indian of C-2, Roshani Flats, Narayan Nagar Road, Vasna, Ahmedabad, Gujarat, India. "Decorative sheet". September 28, 1992.

R. A. ACHARYA

Controller General of Patents Designs and Trade Marks

प्रबन्धक, भारत सरकार मुद्रणालय, फरीदाबाद द्वारा मुद्रित

एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1994

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